

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/11532

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> F16F1/387, F16F15/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> F16F1/00-6/00, F16F15/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2003  
Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	GB 2251050 A (MERCEDES-BENZ AG), 24 June, 1992 (24.06.92), Fig. 3 & FR 2670549 A & DE 4040426 A	1-5 <u>6, 7</u>
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 187112/1987 (Laid-open No. 91138/1989) (Toyota Motor Corp., Toyo Tire and Rubber Co., Ltd.), 15 June, 1989 (15.06.89), Fig. 1 (Family: none)	1-5

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:  
"A" document defining the general state of the art which is not  
considered to be of particular relevance  
"E" earlier document but published on or after the international filing  
date  
"L" document which may throw doubts on priority claim(s) or which is  
cited to establish the publication date of another citation or other  
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"O" document referring to an oral disclosure, use, exhibition or other  
means  
"P" document published prior to the international filing date but later  
than the priority date claimed

"T" later document published after the international filing date or  
priority date and not in conflict with the application but cited to  
understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be  
considered novel or cannot be considered to involve an inventive  
step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be  
considered to involve an inventive step when the document is  
combined with one or more other such documents, such  
combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search  
26 February, 2003 (26.02.03)

Date of mailing of the international search report  
11 March, 2003 (11.03.03)

Name and mailing address of the ISA/  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 98098/1987 (Laid-open No. 3143/1989) (Toyo Tire and Rubber Co., Ltd., Toyota Motor Corp.), 10 January, 1989 (10.01.89), Fig. 1 (Family: none)	1-3
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 17051/1980 (Laid-open No. 119032/1981) (Toyota Motor Corp.), 10 September, 1981 (10.09.81), Drawings (Family: none)	1
Y	JP 2002-147512 A (Bridgestone Corp.), 22 May, 2002 (22.05.02), Figs. 1, 5 (Family: none)	3
Y	JP 2000-74115 A (Tokai Rubber Industries, Ltd.), 07 March, 2000 (07.03.00), Fig. 4 (Family: none)	4, 5
Y	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 19620/1992 (Laid-open No. 71478/1993) (Toyoda Gosei Co., Ltd.), 28 September, 1993 (28.09.93), Figs. 1, 7 (Family: none)	1, 2